

Application for FCC Certificate
On Behalf of
Raywa Lighting & Electrical Corporation

Compact Fluorescent Lamp

Model No.:	CF 15W/PAR30L	CF 15W/BR30
	CF 20W/PAR38	CF 23W/PAR38
	CF 23W/BR40	

Serial No.:	E06032401	E06032402
	E06032403	E06032002
	E06032001	

FCC ID: T5DCFL1

Prepared For :Raywa Lighting & Electrical Corporation
No.70 Changgu Road, Songjiang District,
Shanghai P.R.China

Prepared By :Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F06012
Date of Test : Mar 28, 2006
Date of Report : Apr 03, 2006

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TEST REPORT FOR FCC CERTIFICATE

Applicant : Raywa Lighting & Electrical Corporation
Manufacturer : Raywa Lighting & Electrical Corporation
EUT Description : Energy Saving Lamp

(A) Model No.:

CF 15W/PAR30L	CF 15W/BR30	CF 20W/PAR38
CF 23W/PAR38	CF 23W/BR40	

(B) Serial No.:

E06032401	E06032402	E06032403
E06032002	E06032001	

(C) Power Supply: 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 18 CONSUMER DEVICES (2005.10)
AND MP-5/1986

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 18 RF Lighting Device limits both conducted emissions and field strength.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Please see the EUT Description above), which was tested in 3m anechoic chamber on Mar 28, 2006, to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test :

Mar 28, 2006

Prepared By:

Kathy Wang 2006.4.10
KATHY WANG / Assistant

Reviewer:

 For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Approved Signatory:


Raymond Siu (Manager)

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Disturbance At main terminal	FCC RULES AND REGULATIONS PART 18 SUBPART C OCTOBER 2005 AND MP-5/1986	Pass	18.307(c) Consumer Equipment
Magnetic Field Strength	FCC RULES AND REGULATIONS PART 18 SUBPART C OCTOBER 2005 AND MP-5/1986	Pass	18.305(b) Any type, Non-ISM Frequency

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description	:	Compact Fluorescent Lamp						
Type of EUT	:	☒ Production ☐ Pre-product ☐ Pro-type						
Model Number	:	<table border="1"> <tr> <td>CF 15W/PAR30L</td><td>CF 15W/BR30</td><td>CF 20W/PAR38</td></tr> <tr> <td>CF 23W/PAR38</td><td>CF 23W/BR40</td><td></td></tr> </table>	CF 15W/PAR30L	CF 15W/BR30	CF 20W/PAR38	CF 23W/PAR38	CF 23W/BR40	
CF 15W/PAR30L	CF 15W/BR30	CF 20W/PAR38						
CF 23W/PAR38	CF 23W/BR40							
Serial Number	:	<table border="1"> <tr> <td>E06032401</td><td>E06032402</td><td>E06032403</td></tr> <tr> <td>E06032002</td><td>E06032001</td><td></td></tr> </table>	E06032401	E06032402	E06032403	E06032002	E06032001	
E06032401	E06032402	E06032403						
E06032002	E06032001							
Note	:	They are the same product except the lamp shades, model numbers and power. The circuits and PCB boards are all the same.						
Applicant	:	Raywa Lighting & Electrical Corporation No.70 Changgu Road, Songjiang District, Shanghai P.R.China						
Manufacturer	:	Raywa Lighting & Electrical Corporation No.70 Changgu Road, Songjiang District, Shanghai P.R.China						

Test Model	Apparent Power (V • A)	Real Power (W)
CF 15W/PAR30L	28.21	16.22
CF 15W/BR30	28.48	15.00
CF 20W/PAR38	37.68	20.94
CF 23W/PAR38	38.20	21.30
CF 23W/BR40	37.20	20.80

2.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber)	:	Sept. 17, 1998 file on August 15, 2003 Renewed Federal Communications Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, USA
Name of Firm	:	Audix Technology (Shanghai) Co., Ltd.
Site Location	:	3F 34Bldg 680 Guiping Rd, Caohejing Hi-Tech Park, Shanghai, China 200233
FCC registration Number	:	91789
Accredited by NVLAP, Lab Code	:	200371-0

2.3 Measurement Uncertainty

Conducted Disturbance Expanded Uncertainty : $U = 1.84\text{dB}$

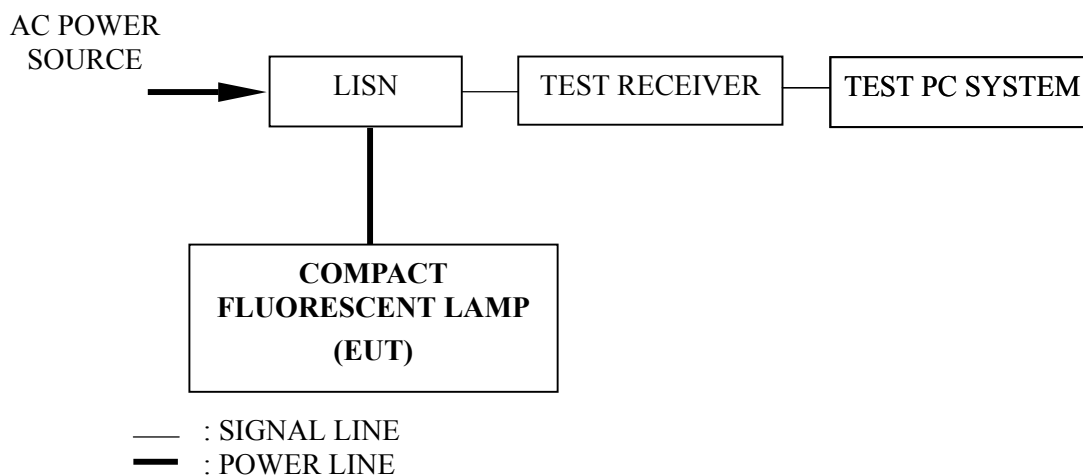
3 AC POWERLINE CONDUCTED EMISSION TEST

3.1 Test Equipment

The following test equipment are used during the powerline conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESHS10	830223/007	Apr 08, 2005	Apr 08, 2006
2.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 12, 2005	Apr 12, 2006
3.	50Ω Coaxial Switch	ANRITSU	MP59B	6200426389	Oct 07, 2005	Apr 07, 2006
4.	Software	Audix	E3	SET00200 9804M592	--	--

3.2 Block Diagram of Test Setup



3.3 Conducted Emission Limits (FCC Part 18 Consumer)

Frequency (MHz)	Maximum RF Line Voltage	
	(μ V)	dB(μ V)
0.45 ~ 2.51	250	48
2.51 ~ 3	3000	70
3 ~ 30	250	48
NOTE 1 – RF Line Voltage dB (μ V) = 20 log RF Line Voltage (μ V) NOTE 2 – The tighter limits shall apply at the boundary between two frequency ranges.		

3.4 Test Configuration

The EUT (listed in Sec. 2.1) was installed as shown on Sec. 3.2 to meet FCC requirement and operating in a manner which tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipment.

3.5.3 The EUT will be operated normally.

3.6 Test Procedures

The EUT was connected to the power mains through a Line Impedance Stabilization Network (LISN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to MP-5/1986 during conducted emission test.

The IF bandwidth of Test Receiver ESHS10 was set at 10 kHz.

The frequency range from 450 kHz to 30 MHz was checked.

The test mode (Lighting) was done on conducted test and the test results of the highest emissions are listed in Sec. 3.7.

3.7 Test Results

< PASS >

The frequency and amplitude of the highest AC power-line conducted emissions relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

NOTE 1 - Factor = Cable Loss + LISN Factor.

NOTE 2 - Level = Read Level + Factor.

NOTE 3 - All reading are Quasi-Peak Values.

NOTE 4 - The worst case is for M/N: CF 23W/PAR38. The worst emission is detected at 0.49 MHz with corrected signal level of 44.02 dB (μV) (limit is 48.00 dB (μV)), when the VB of the EUT is connected to LISN.

EUT : Compact Fluorescent Lamp Temperature : 25°C

Model No. : CF 15W/PAR30L Humidity : 55%

Serial No. : E06032401 Date of Test : Mar 28, 2006

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.49	36.90	0.48	37.38	48.00	10.62
	0.65	37.06	0.40	37.46	48.00	10.54
	0.81	37.42	0.39	37.81	48.00	10.19
	1.52	38.71	0.36	39.07	48.00	8.93
	4.22	25.22	0.37	25.59	48.00	22.41
	6.87	22.35	0.39	22.74	48.00	25.26
VB	0.48	37.02	0.37	37.39	48.00	10.61
	0.73	35.99	0.27	36.26	48.00	11.74
	1.25	34.62	0.29	34.91	48.00	13.09
	1.90	34.12	0.30	34.42	48.00	13.58
	2.72	29.71	0.31	30.02	70.00	39.98
	4.83	25.11	0.35	25.46	48.00	22.54

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : Compact Fluorescent Lamp Temperature : 25°C

Model No. : CF 15W/BR30 Humidity : 55%

Serial No. : E06032402 Date of Test : Mar 28, 2006

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.49	38.78	0.48	39.26	48.00	8.74
	0.63	33.81	0.41	34.22	48.00	13.78
	0.85	36.64	0.39	37.03	48.00	10.97
	0.99	33.77	0.41	34.18	48.00	13.82
	1.56	38.77	0.36	39.13	48.00	8.87
	2.23	19.71	0.34	20.05	48.00	27.95
VB	0.48	36.62	0.37	36.99	48.00	11.01
	0.84	33.12	0.27	33.39	48.00	14.61
	0.97	32.25	0.28	32.53	48.00	15.47
	1.55	38.43	0.29	38.72	48.00	9.28
	2.19	18.19	0.31	18.50	48.00	29.50
	5.14	10.85	0.36	11.21	48.00	36.79

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : Compact Fluorescent Lamp Temperature : 25°C

Model No. : CF 20W/PAR38 Humidity : 55%

Serial No. : E06032403 Date of Test : Mar 28, 2006

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.48	39.04	0.48	39.52	48.00	8.48
	0.59	39.50	0.43	39.93	48.00	8.07
	0.77	38.72	0.38	39.10	48.00	8.90
	0.93	35.81	0.40	36.21	48.00	11.79
	1.73	31.47	0.34	31.81	48.00	16.19
	4.22	37.06	0.37	37.43	48.00	10.57
VB	0.50	38.60	0.36	38.96	48.00	9.04
	0.59	39.52	0.32	39.84	48.00	8.16
	0.71	38.21	0.27	38.48	48.00	9.52
	0.78	35.41	0.27	35.68	48.00	12.32
	0.88	35.20	0.27	35.47	48.00	12.53
	4.19	39.78	0.34	40.12	48.00	7.88

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : Compact Fluorescent Lamp Temperature : 25°C

Model No. : CF 23W/PAR38 Humidity : 55%

Serial No. : E06032002 Date of Test : Mar 28, 2006

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.46	40.07	0.48	40.55	48.00	7.45
	0.51	41.82	0.47	42.29	48.00	5.71
	0.56	37.64	0.45	38.09	48.00	9.91
	0.74	36.50	0.38	36.88	48.00	11.12
	0.90	37.69	0.39	38.08	48.00	9.92
	4.22	40.63	0.37	41.00	48.00	7.00
VB	0.49	43.65	0.37	44.02	48.00	3.98
	0.57	39.58	0.33	39.91	48.00	8.09
	0.65	36.84	0.29	37.13	48.00	10.87
	0.73	36.03	0.27	36.30	48.00	11.70
	0.90	35.32	0.27	35.59	48.00	12.41
	4.22	39.22	0.34	39.56	48.00	8.44

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : Compact Fluorescent Lamp Temperature : 25°C

Model No. : CF 23W/BR40 Humidity : 55%

Serial No. : E06032001 Date of Test : Mar 28, 2006

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.47	40.74	0.48	41.22	48.00	6.78
	0.51	40.72	0.47	41.19	48.00	6.81
	0.54	38.19	0.46	38.65	48.00	9.35
	0.71	34.50	0.38	34.88	48.00	13.12
	0.82	34.48	0.39	34.87	48.00	13.13
	4.49	35.97	0.38	36.35	48.00	11.65
VB	0.45	43.46	0.37	43.83	48.00	4.17
	0.59	39.12	0.32	39.44	48.00	8.56
	0.75	35.99	0.27	36.26	48.00	11.74
	0.94	31.34	0.27	31.61	48.00	16.39
	1.36	29.61	0.29	29.90	48.00	18.10
	4.49	37.72	0.35	38.07	48.00	9.93

TEST ENGINEER: Dio Yang
(DIO YANG)

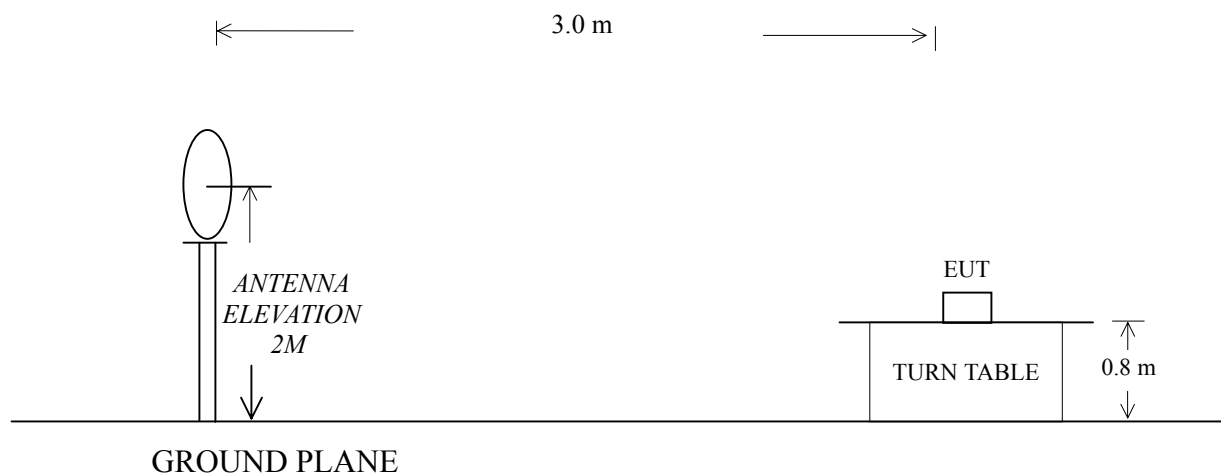
4 MAGNETIC FIELD EMISSION TEST

4.1 Test Equipment

The following test equipment are used during the field strength test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Loop Antenna	Schaffner	HLA6120	1193	Apr 12, 2005	Apr 12, 2006
2.	Test Receiver	R&S	ESHS10	830223/007	Apr 08, 2005	Apr 08, 2006
3.	50Ω Coaxial Switch	ANRITSU	MP59B	6200426390	Oct 07, 2005	Apr 07, 2006
4.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup



4.3 Magnetic Field Emission Limit (FCC Part 18 305(b))

All emanations from Non-ISM frequency devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency (MHz)	Distance (m)	Field Strength Limits ($\mu\text{V/m}$)	Converted Field Strength Limits By 3 Meters Measuring Distance dB ($\mu\text{V/m}$)
0.009~30	300	15	63.5
NOTE 1 - Distance refers to the distance in meters between the test antenna and the closed point of any part of the EUT.			
NOTE 2 - Audix Technology (Shanghai) Co., Ltd. only has a 3 meters Semi-anechoic Chamber to do the radiated disturbance test, therefore, Audix Shanghai used 3 meters measuring distance and converted limits to judge the EUT compliance with or not.			

4.4 EUT Configuration on Test

The FCC part 18 regulations test method must be used to find the maximum emission during Radiated Emission test.

The configuration of the EUT is same as used in conducted emission test. Please Refer to Section 3.4.

4.5 Operating Condition of EUT

4.5.1 Setup the EUT as shown on Section 4.2.

4.5.2 Turn on the power of all equipments.

4.5.3 Let the EUT work in test mode (Lighting) and test it.

4.6 Test Procedures

The EUT is placed on a table, which is 0.8 meter above ground. Measurements are performed at 3.0m distance with a 0.6m loop antenna as described in 2.2.4 of MP-5 . The antenna shall be with the lower edge of the loop at 2m height above the floor.

The bandwidth setting on the test receiver (R&S Test Receiver ESHS10) is 200Hz from 9kHz to 150kHz and 10kHz from 150kHz to 30MHz. The EUT is tested in a semi-anechoic chamber.

All the test results refer to Sec. 4.7.

4.7 Test Results

<PASS>

Refer to the following pages.

NOTE 1 - Factor = Antenna Factor + Cable Loss

NOTE 2 - Level = Read Level + Factor.

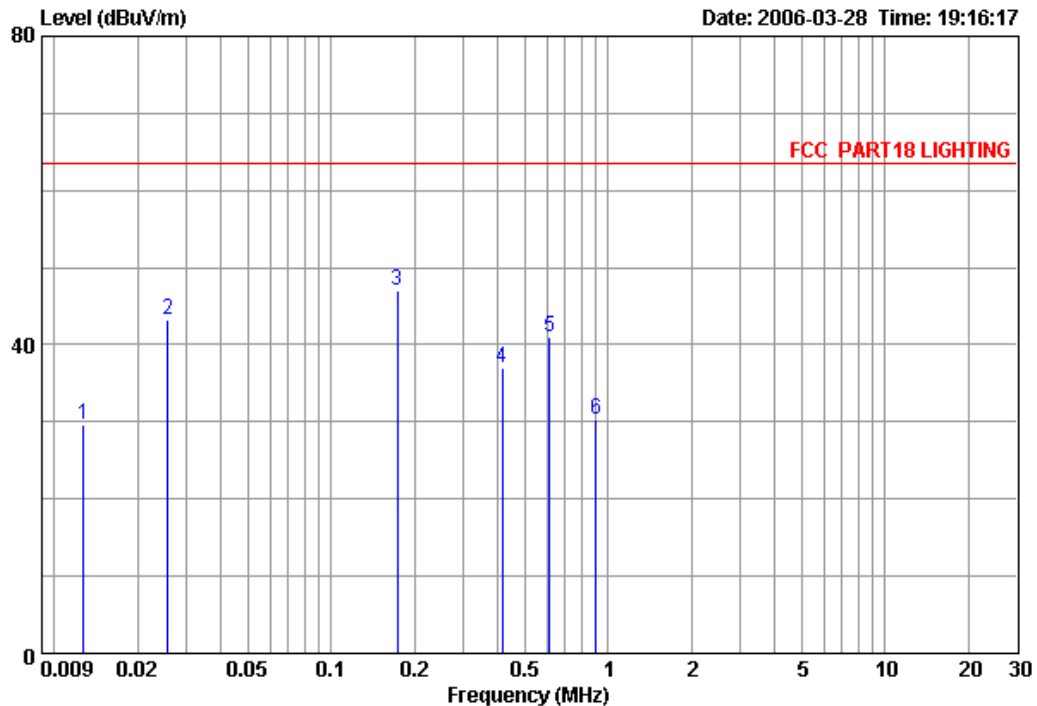
NOTE 3 - All reading are Quasi-Peak Values.



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 audixaci@audix.com

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Date: 2006-03-28 Time: 19:16:17



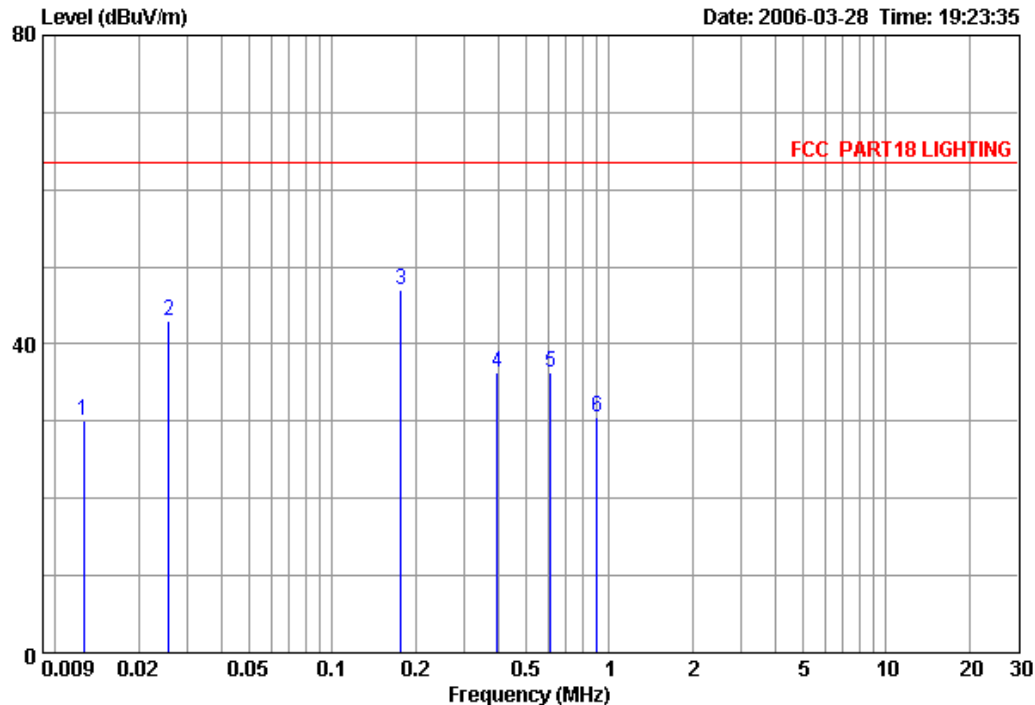
Site : Chamber 3
 Condition : FCC PART18 LIGHTING 3m
 Project No. : AOE-001063
 Applicant : Raywa Lighting & Electrical Corporation
 EUT : Compact Fluorescent Lamp
 M/N : CF15W/PAR30L
 S/N : E06032401
 Power Supply : 120V/60Hz
 Ambient : 22°C 50%RH
 Test Mode : Lightin
 Test Engineer : Emma Zhang
 Memo :

	Freq	Level	Over	Limit	Read	Antenna	Cable
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss
			dB	dBuV/m	dBuV	dB/m	dB
1	0.01	29.74	-33.76	63.50	9.37	20.37	0.04
2	0.03	43.27	-20.23	63.50	22.81	20.46	0.05
3	0.17	47.05	-16.45	63.50	26.73	20.32	0.07
4	0.41	36.94	-26.56	63.50	16.76	20.18	0.08
5	0.62	41.02	-22.48	63.50	20.87	20.15	0.11
6	0.90	30.25	-33.25	63.50	10.01	20.24	0.17



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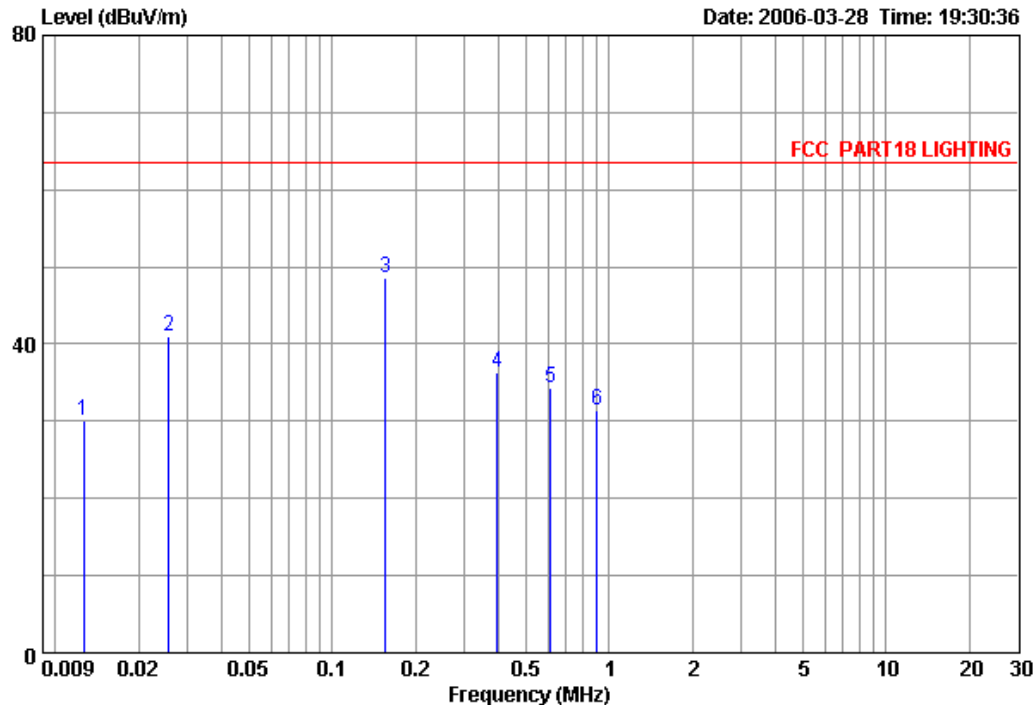
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 Condition : FCC PART18 LIGHTING 3m
 Project No. : AOE-001063
 Applicant : Raywa Lighting & Electrical Corporation
 EUT : Compact Fluorescent Lamp
 M/N : CF15W/BR30
 S/N : E06032402
 Power Supply : 120V/60Hz
 Ambient : 22°C 50%RH
 Test Mode : Lighting
 Test Engineer : Emma Zhang
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB
1	0.01	30.15	-33.35	63.50	9.78	20.37	0.04
2	0.03	43.10	-20.40	63.50	22.64	20.46	0.05
3	0.18	47.02	-16.48	63.50	26.69	20.33	0.07
4	0.39	36.30	-27.20	63.50	16.11	20.19	0.08
5	0.62	36.37	-27.13	63.50	16.22	20.15	0.11
6	0.90	30.45	-33.05	63.50	10.21	20.24	0.17



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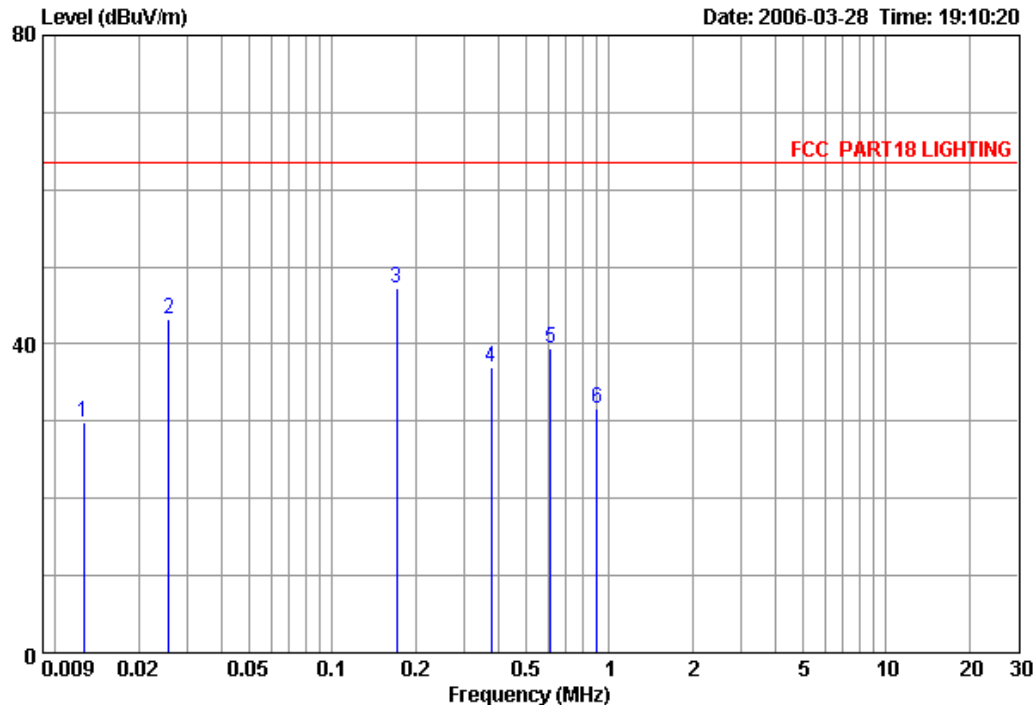
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 Condition : FCC PART18 LIGHTING 3m
 Project No. : AOE-001063
 Applicant : Raywa Lighting & Electrical Corporation
 EUT : Compact Fluorescent Lamp
 M/N : CF20W/PAR38
 S/N : E06032402
 Power Supply : 120V/60Hz
 Ambient : 22°C 50%RH
 Test Mode : Lighting
 Test Engineer : Emma Zhang
 Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB/m
1	0.01	30.15	-33.35	63.50	9.78	20.37	0.04
2	0.03	41.10	-22.40	63.50	20.64	20.46	0.05
3	0.16	48.55	-14.95	63.50	28.27	20.28	0.07
4	0.39	36.30	-27.20	63.50	16.11	20.19	0.08
5	0.62	34.37	-29.13	63.50	14.22	20.15	0.11
6	0.90	31.45	-32.05	63.50	11.21	20.24	0.17



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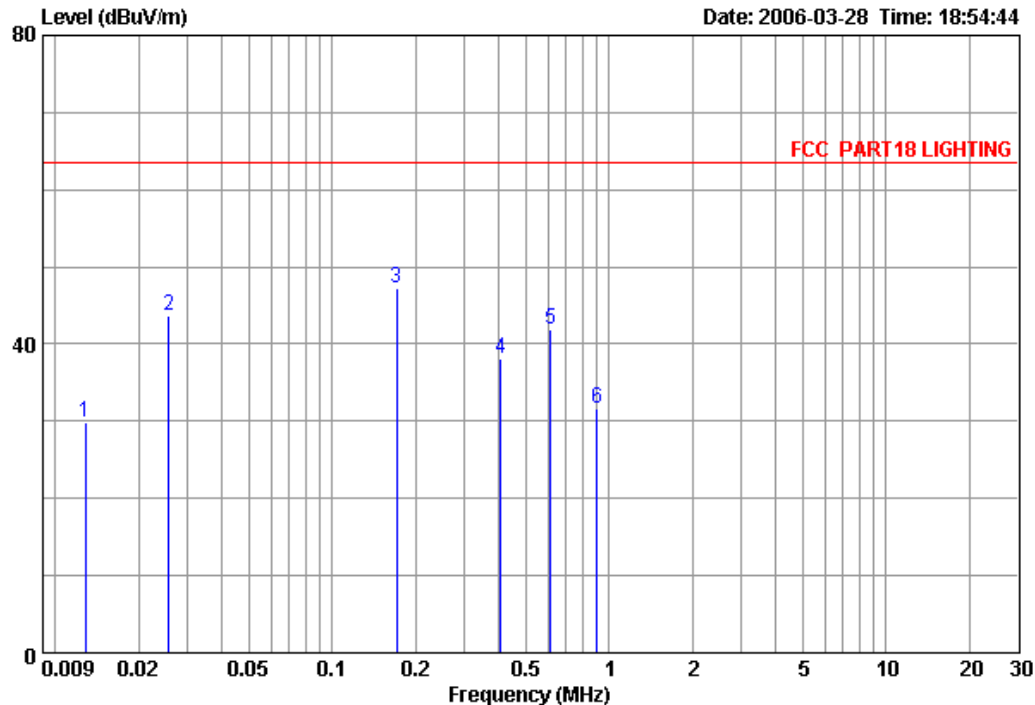
Site : Chamber 3
 Condition : FCC PART18 LIGHTING 3m
 Project No. : AOE-001063
 Applicant : Raywa Lighting & Electrical Corporation
 EUT : Compact Fluorescent Lamp
 M/N : CF23W/PAR38
 S/N : E06032002
 Power Supply : 120V/60Hz
 Ambient : 22°C 50%RH
 Test Mode : Lightin
 Test Engineer : Emma Zhang
 Memo :

	Freq	Level	Over	Limit	Read	Antenna	Cable
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB/m
1	0.01	29.81	-33.69	63.50	9.44	20.37	20.33
2	0.03	43.18	-20.32	63.50	22.72	20.46	20.41
3	0.17	47.15	-16.35	63.50	26.83	20.32	20.25
4	0.38	36.92	-26.58	63.50	16.72	20.20	20.12
5	0.62	39.44	-24.06	63.50	19.29	20.15	20.04
6	0.90	31.67	-31.83	63.50	11.43	20.24	20.07



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Data: 10 File: D:\Test-Data\R\Raywa.EMI (14)



Site : Chamber 3
 Condition : FCC PART18 LIGHTING 3m
 Project No. : AOE-001063
 Applicant : Raywa Lighting & Electrical Corporation
 EUT : Compact Fluorescent Lamp
 M/N : CF23W/BR40
 S/N : E06032001
 Power Supply : 120V/60Hz
 Ambient : 22°C 50%RH
 Test Mode : Lightin~
 Test Engineer : Emma Zhang
 Memo :

	Freq	Level	Over	Limit	Read	Antenna	Cable
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB/m
1	0.01	29.76	-33.74	63.50	9.39	20.37	20.33
2	0.03	43.71	-19.79	63.50	23.25	20.46	20.41
3	0.17	47.19	-16.31	63.50	26.87	20.32	20.25
4	0.41	38.03	-25.47	63.50	17.85	20.18	20.10
5	0.62	41.84	-21.66	63.50	21.69	20.15	20.04
6	0.90	31.63	-31.87	63.50	11.39	20.24	20.07

5 DEVIATION TO TEST SPECIFICATIONS

None.